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10/561,755	05/16/2006	Ralf Schmeling	18213	1610
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INTELLECTUAL PROPERTY LAW DEPARTMENT			GARCIA, ERNESTO	
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	,		3679	
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# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/561,755	SCHMELING ET AL.	
Office Action Summary	Examiner	Art Unit	
	ERNESTO GARCIA	3679	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perions for reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be tind will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed  the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on 24 2a) ☐ This action is <b>FINAL</b> . 2b) ☐ The 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, pr		
Disposition of Claims			
4) Claim(s) 6-12 is/are pending in the application 4a) Of the above claim(s) is/are withdom 5) Claim(s) is/are allowed. 6) Claim(s) 6-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a continuous Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	ccepted or b) objected to by the ne drawing(s) be held in abeyance. Se ection is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:      1. ☐ Certified copies of the priority docume 2. ☐ Certified copies of the priority docume 3. ☐ Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat iority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail D 5)  Notice of Informal I 6)  Other:	ate	

### **DETAILED ACTION**

The indicated allowability of claim 6 is withdrawn in view of the newly discovered reference(s) to LaBounty et al., RE35,432. Rejections based on the newly cited reference(s) follow.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

### Claim Objections

Claims 6 and 7 are objected to because of the following informalities:

regarding claim 6, --a frame-- should be inserted after "comprising:" as the machine is being defined, "a frame of the machine" in line 3 should be --the frame--, "the" in line 4 should be --a--, and the first occurrence of "the" in line 8 should be --a--; and,

regarding claim 7, "of" in line 4 should be --on--, "component" in line 7 should be --components--, and "can slide" in line 8 should be --being slidable-- since it raises the question whether the boom components actually can slide. Appropriate correction is required. For purposes of examining the instant invention, the examiner has assumed these corrections have been made.

## Claim Rejections - 35 USC § 102

Claims 6, 7, 9, and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by LaBounty et al., RE35,432.

Regarding claim 6, LaBounty et al. disclose, in Figure 15, a construction machine comprising a frame 25, a first boom component 22, a second boom component 23, a pin 24, a third component 18.1, and a bearing 58. The first boom component 22 has a first end 28 rotatably mounted to the frame 25. The second boom component 23 is articulated to a second end of the first boom component 22 by the bearing 58. The bearing 58 has a bearing tube 58 having an internal diameter and an external diameter. The pin 24 extends in a direction of a swiveling axis of the bearing 58 and borne in the bearing tube 58. The pin 24 has outer ends protruding from the ends of the bearing tube 58. The third component 18.1 is borne on at least one outer end of the pin 24. The external diameter of the bearing tube 58 is greater than the external diameter of the pin 24. The first component 22 and the second component 23 are both borne alongside each other on the external diameter of the bearing tube 58. The third component 18.1 transmits a force to the pin 24 and is rotatable with respect to the pin 24, the first boom component 22, and the second boom component 23.

Regarding claim 7, the construction machine further comprises a first set of bearing points (the use of "points" in broad. LaBounty has linear and circumferential

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contacts and made of points) on the first boom component located in contact with a middle of the bearing tube **58**. A second set of bearing points are on the second boom component located immediately outside of adjacent to the bearing points of the first component. The bearing points of both the first and second boom component are able to slide on the external diameter of the bearing tube.

Regarding claim 9, the second boom component **23** is inserted over the first boom component **22**.

Regarding claim 12, a ring 62 having a locking connector 63 is inserted over both ends of the pin 24 and maintains axial alignment of the components located therebetween.

## Claim Rejections - 35 USC § 103

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over LaBounty et al., RE35,432, in view of Horton, 4,772,150.

Regarding claim 8, the bearing points of the second component are fitted with guide bushings **64**, **69**. However, LaBounty et al. fail to disclose the bearing points of the first component fitted with guide bushings. Horton teaches, in Figure 2, a first component **16** with bearing points fitted with guide bushings **30** to reduce friction

between the first component **16** and a bearing **32**. Therefore, as taught by Horton, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the first component of LaBounty with guide bushings to reduce friction between the first component and the bearing.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over LaBounty et al., RE35,432, in view of Valori, GB-1,559,137.

Regarding claim 10, LaBounty et al., as discussed, fails to disclose the third component being an adjustment cylinder. Instead, the third component is a jaw. Valori teaches a rearrangement of components where the two jaws 21, 22 are considered the first and second boom components 21, 22 and the third component 14 is an adjustment cylinder so that all three components are pivotable with respect to each other at one bearing 33 using one adjustment cylinder for simplicity. Therefore, as taught by Valori, it would have been obvious to one of ordinary skill in the art at the time the invention was made to rearrange the configuration of LaBounty et al. with that of Valori so that the third component is an adjustment cylinder to move two boom components at one bearing.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over LaBounty et al., RE35,432, in view of Mieger et al., 6,385,872.

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Regarding claim 11, LaBounty et al., as discussed, fail to disclose the external diameter of a mid-section of the pin being less than an external diameter at either end of the pin. Mieger et al. teach, in Figure 8, a mid-section of a pin being less than an external diameter at either end of the pin to increase the volume of the grease reservoir thus providing more grease in a pivot connection. Therefore, as taught by Mieger, it would have been obvious to one of ordinary skill in the art at the time the invention was made to place an annular groove in a mid-section of the pin such that the external diameter of the mid-section of the pin is less than an external diameter at either end of the pin in LaBounty et al. to increase the volume of the grease reservoir thus allowing for more storage of grease in the pivot connection.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ernesto Garcia whose telephone number is 571-272-7083. The examiner can normally be reached from 9:30AM-6:00PM. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached at 571-272-7087.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

/E. G./

Examiner, Art Unit 3679

Business Center (EBC) at 866-217-9197 (toll-free).

August 7, 2009

/Daniel P. Stodola/ Supervisory Patent Examiner, Art Unit 3679